## JC20 Rec'd PCT/PTO 1 4 JUL 2005

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Application No.:** 

Not yet assigned - US National Phase of PCT/JP2004/008910

Filing Date:

June 18, 2004 (Interntional Filing Date)

Applicant:

Kengo NAGATA, et al.

Group Art Unit:

Not yet assigned

Examiner:

Not yet assigned

Title:

WIRELESS PACKET COMMUNICATION METHOD AND

WIRELESS PACKET COMMUNICATION APPARATUS

Attorney Docket:

6268-003/NP

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

### **INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

#### I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

#### II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:			
U.S. Serial Number	U.S. Filing Date		
C. This is a PCT application in the entry of States. A copy of the International Search Reinformation. The documents listed on the International Search Reinformation. The documents listed on the International Search authorities and patent resulting from this application. If the from the US, EPO, or JPO search authorities, have been supplied to the USPTO under believed to be in the file of the above-identified CONCISE EXPLANATION OF THE RELEVAN	port is attached for the Examiner's ernational Search report are listed by the Examiner and for listing on the International Search report was copies of these references should the trilateral agreement and are application. (MPEP 1893.03(g).)		
A.   Except as may be indicated below in (B) other information are in the English language (c)	), all of the patents, publications or		
B. A concise explanation of the relevance of information listed that is not in the English lang § 1.98(a)(3)):			
<ol> <li>See the attached foreign pater counterpart foreign application: International Search Report and Wri Searching Authority for PCT/JP2004 English Translations)</li> </ol>	tten Opinion of the International		
<ol> <li>English translations are provided: As noted on Form HDP-1449</li> </ol>			
3. Cother:			
C. The following additional information consideration.	is provided for the Examiner's		

III.

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V.	CROSS REFERENCE T	O RELATED APPLICATION	<u>I(S)</u>
	contain(s) subject matter bringing this(these) appl	er that may be related to t	attention, Applicant(s) does
	Serial No.	Filing Date	Art Unit
<b>/</b> .	THIS IDS IS BEING FILE  A.  37 C.F.R. § 1.97(b)		
	than a continued		f a national application other nder § 1.53(d) (37 C.F.R. §
		an international application	of the national stage as set (37 C.F.R. § 1.97(b)(2)). No
	1.97(b)(3)). No to office Action on under 37 C.F.R. 1.97(e) below; or	fee or certification is require the merits has been issue § 1.97(c) and see the cer r, if no certification has bee	on on the merits (37 C.F.R. § ed. In the event that a first ed, please consider this IDS tification under 37 C.F.R. § on made, charge our deposit quired by 37 C.F.R. § 1.17(p).
			n after the filing of a request 1.114. No fee or certification
	B. 37 C.F.R. § 1.97(c	e): (check <u>only</u> one box)	
		of Allowance under 37 C.F.I	fice Action under 37 C.F.R. § R. § 1.311, or an action that
	1.  No certificate by 37 C.F.R. § 1.		mount of \$180.00 is required
	2 $\square$ See the ser	tification bolow. No fee is re	guirod

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	C. 37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
<b>/</b> 1.	CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
	The undersigned hereby certifies that:
	A.   each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)).   See further statement under 37 C.F.R. 1.704(d) below in section VII if applicable; or
	B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
	C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.
/II.	STATEMENT UNDER 37 C.F.R. 1.704(d)
	The undersigned hereby states that:
	each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

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### VIII. PAYMENT OF FEES (check only one 620) Rec'd PCT/PTO 1 4 JUL 2005

- A. A check in the amount of \$180.00 is enclosed for the above identified fee.
- B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: July 14, 2005

Gregory A. Stobbs Reg. No. 28,764

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

GAS/smc

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### FORM HDP-1449 (Based on Form PTO-1449)

### PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET NO.	107542220
6268-003/NP	10/542220
APPLICANT	
Kengo NAGATA, et al.	
FILING DATE	GROUP

U.S. P	ATENT DO	CUMENTS				
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		2003/0074669 A1	04/17/2003	Kobayashi et al.		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		05-035624 A	02/12/1993	JP		Yes	
2.		2002-064459 A	02/28/2002	JP		Yes	
3.		2003-101604 A	04/04/2003	JP		*	
4.		09-055776 A	02/25/1997	JP		Abstract	
5.		11-154989 A	06/08/1999	JP		Abstract	

<sup>\*</sup> JP 2003-101604 A corresponds to US 2003/0074669 A1

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig.	Examiner's Initials		
1.		Satoshi KUROSAKI, Yusuke ASAI, Takatoshi SUGIYAMA, Masahiro UMEHIRA, "MIMO Channel ni yori 100Mbit/s o Jitsugen suru Kotaiiki Ido Tsushin'yo SMD-COFDM Hoshiki no Teian", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, Vol. 101, No. 370, 12 October, 2001 (12.10.01), pages 37 to 42 (with English Translation)	
2.		Satoshi KUROSAKI, Yusuke ASAI, Takatoshi SUGIYAMA, Masahiru UMEHIRA, "A SDM-COFDM Scheme Employing a Simple Feed-Forward Inter-Channel Interference Canceller for MIMO Based Broadband Wireless LANs", IEICE TRANSACTIONS ON Communications, Vol. E86-B, No. 1, 01 January, 2003 (01.01.03), pages 283 to 290	

Examiner:	Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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### FORM HDP-1449 (Based on Form PTO-1449)

### PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

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Sheet 2 of 2

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ATTORNEY DOCKET No.	SERIAL NO.
6268-003/NP	10/542220
APPLICANT	
Kengo NAGATA, et al.	
FILING DATE	GROUP

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig.	Examiner's Initials			
3.		International Standard ISO/IEC 8802-11 ANSI/IEEE Std 802.11, 1999 edition, Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications		
4.		IEEE Std 802.11-1997, Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications		
5.		Low-powered Data Communication System/Broadband Mobile Access Communication System (CSMA) standard, ARIB STD-T71 version 1.0, Association of Radio Industries and Businesses (with English Translation)		
6.		lizuka et al., "5 GHz Wireless LAN System Based on the IEEE 802.11a standard - Packet Transmission Characteristics - ", B-5-124, Proceedings of the Electronics Information and Communication Engineers, Society Conference 2000 (with English Translation)		

Examiner:	Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.